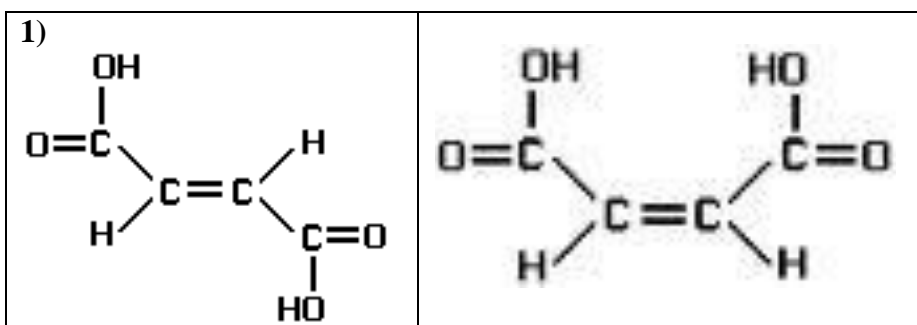
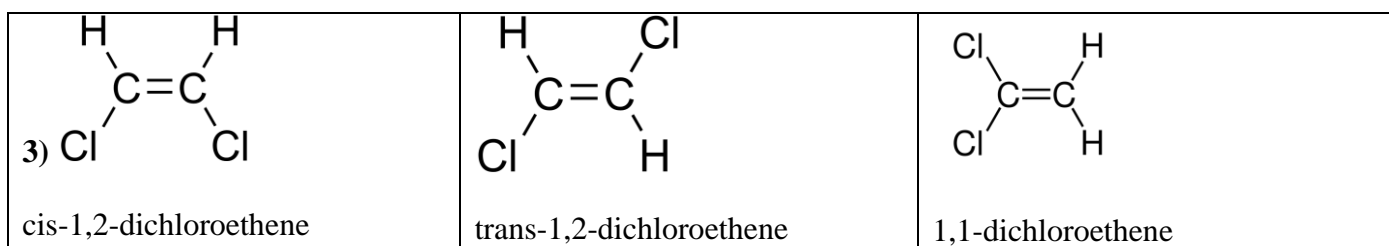


ANSWERS: Crystal ball questions on Isomers

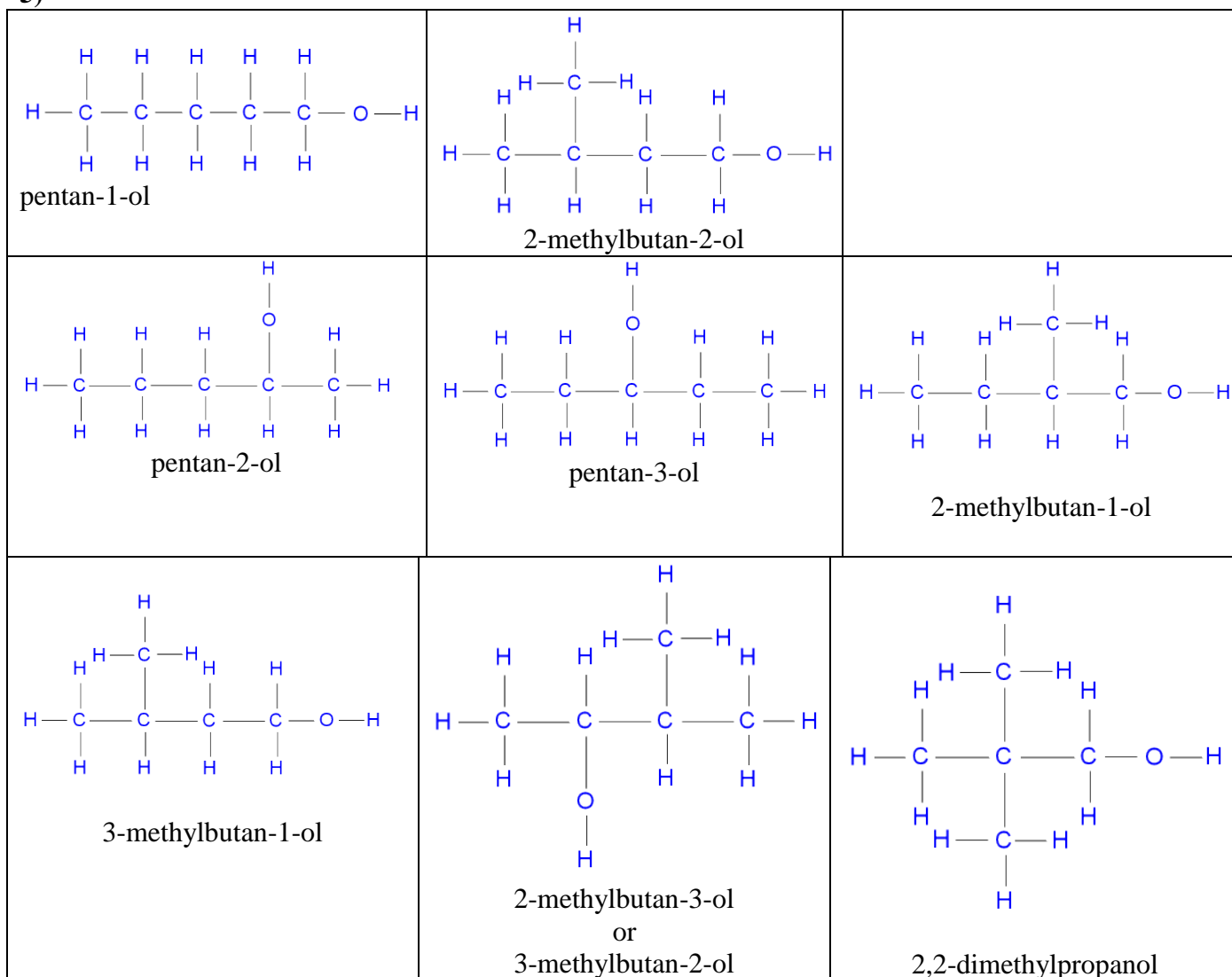


2) methylbutane and dimethylpropane



4) compounds with same molecular formula but different structural formulas

5)



ii) (Level 3 answer)

cis (higher boiling point);

cis (more) polar / trans non-polar/less polar;

cis experiences stronger (permanent) dipole-dipole interaction / trans experiences no/(much) less dipole-dipole interaction;

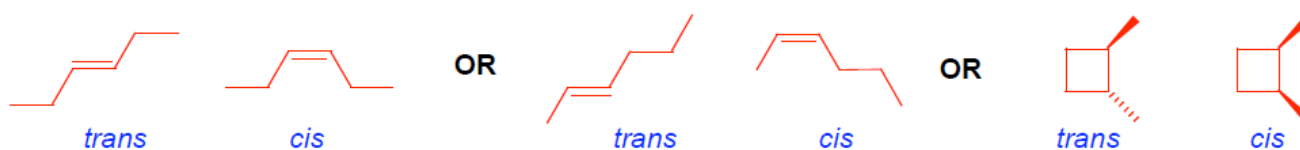
6) A: butan-1-ol

B: butan-2-ol;

C: (2-)methylpropan-2-ol or 2-methyl-2-propanol

D: (2-)methylpropan-1-ol;

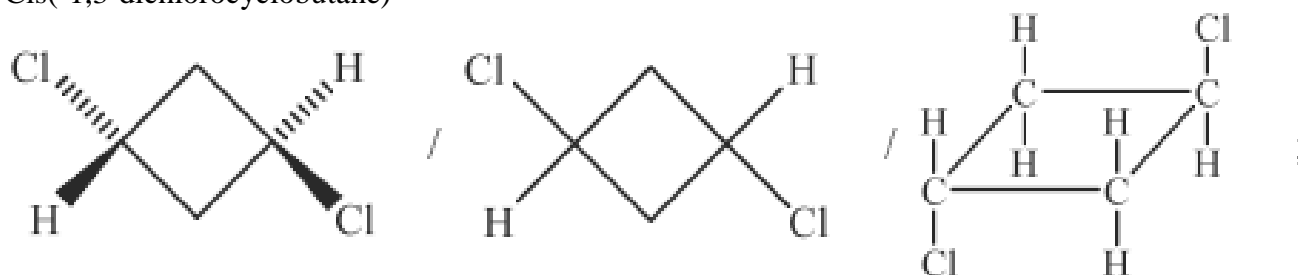
7) Please note for NCEA Levels 2 & 3 you will not see in a question nor be expected to answer a question showing skeletal formula as drawn in the two answers below.



8)i)



Cis(-1,3-dichlorocyclobutane)



Trans(-1,3-dichlorocyclobutane)